100 DAYS CODING SERIES BY TALENT BATTLE

Day 6 - 21/11/2022

Q. Get the value of x and y coordinates as input from the user and check in which quadrant the point lies and print it.
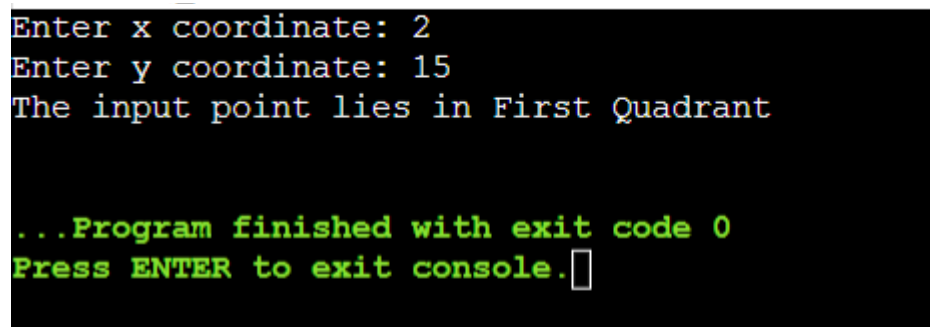
main.py

```python
inpx = int(input("Enter x coordinate: "))
inpy = int(input("Enter y coordinate: "))

if inpx>0:
    if inpy>0:
        print("The input point lies in First Quadrant")
    elif inpy<0:
        print("The input point lies in Fourth Quadrant")
    elif inpy==0:
        print("The input point lies on positive X-axis")

elif inpx<0:
    if inpy>0:
        print("The input point lies in Second Quadrant")
    elif inpy<0:
        print("The input point lies in Third Quadrant")
    elif inpy==0:
        print("The input point lies on negative X-axis")

elif inpx==0:
    if inpy>0:
        print("The input point lies on positive Y-axis")
    elif inpy<0:
        print("The input point lies on negative Y-axis")
    elif inpy==0:
        print("The input point lies on the origin")
```

output

```
Enter x coordinate: 2
Enter y coordinate: 15
The input point lies in First Quadrant


...Program finished with exit code 0
Press ENTER to exit console.
```

```
Enter x coordinate: -2
Enter y coordinate: 10
The input point lies in Second Quadrant


...Program finished with exit code 0
Press ENTER to exit console.
```

```
Enter x coordinate: 5
Enter y coordinate: -10
The input point lies in Fourth Quadrant


...Program finished with exit code 0
Press ENTER to exit console.
```

```
Enter x coordinate: 5
Enter y coordinate: 0
The input point lies on positive X-axis


...Program finished with exit code 0
Press ENTER to exit console.
```

```
Enter x coordinate: -5
Enter y coordinate: 0
The input point lies on negative X-axis


...Program finished with exit code 0
Press ENTER to exit console.
```

```
Enter x coordinate: 0
Enter y coordinate: -5
The input point lies on negative Y-axis


...Program finished with exit code 0
Press ENTER to exit console.
```

```
Enter x coordinate: 0
Enter y coordinate: 5
The input point lies on positive Y-axis


...Program finished with exit code 0
Press ENTER to exit console.
```

```
Enter x coordinate: 0
Enter y coordinate: 0
The input point lies on the origin


...Program finished with exit code 0
Press ENTER to exit console.
```